

FIG. 1

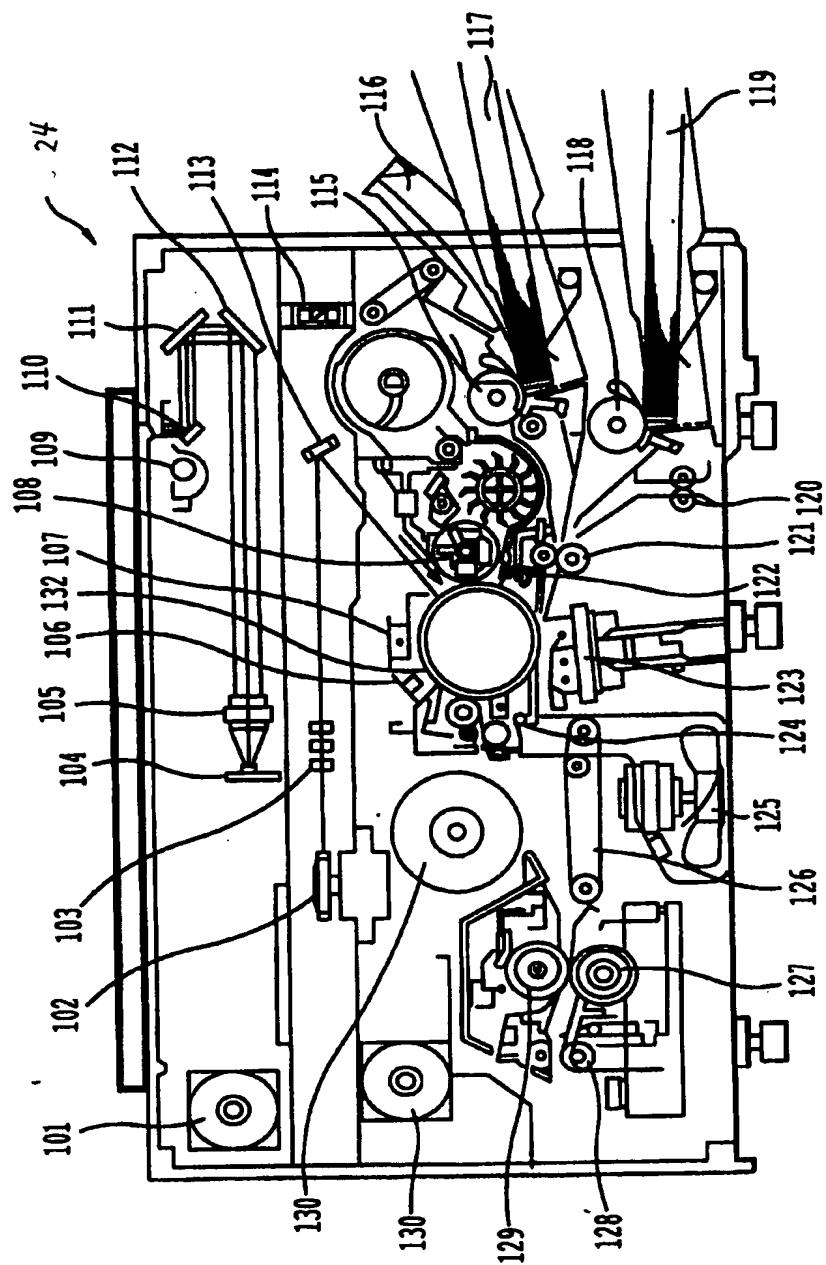


FIG. 2

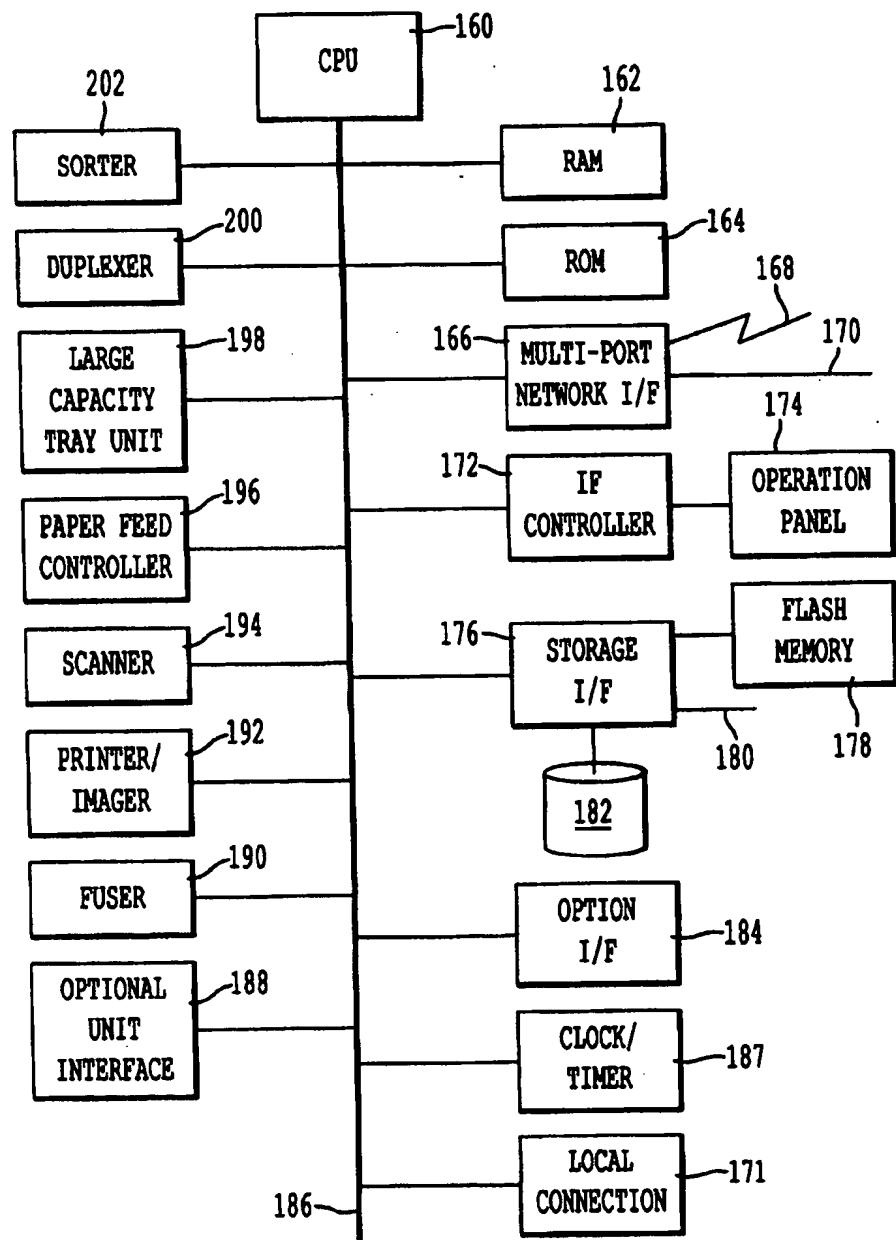


FIG. 3

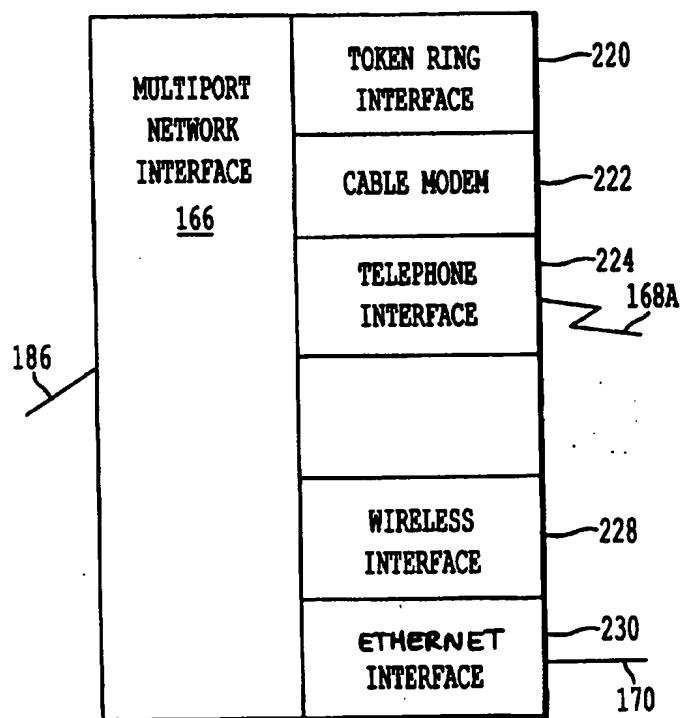


FIG. 4

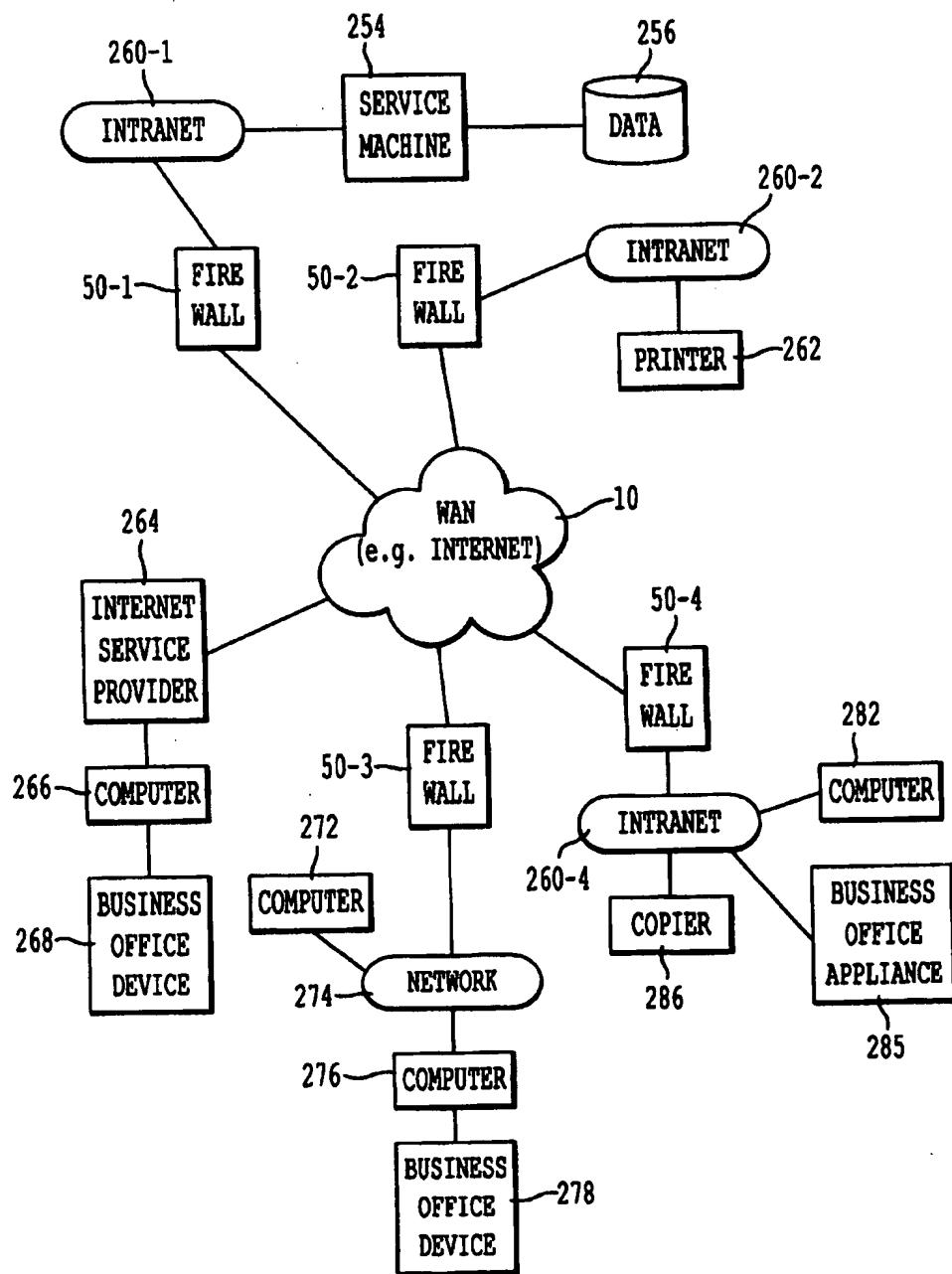
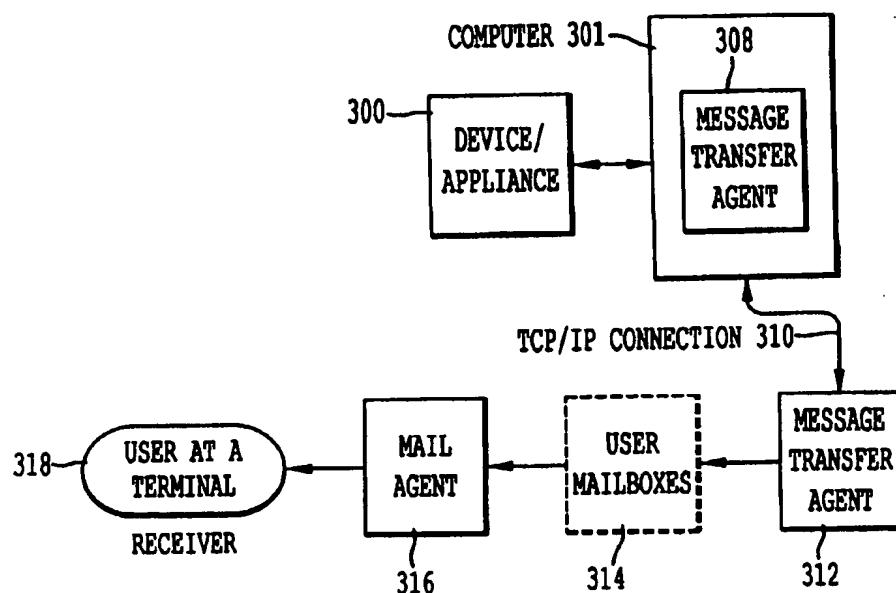
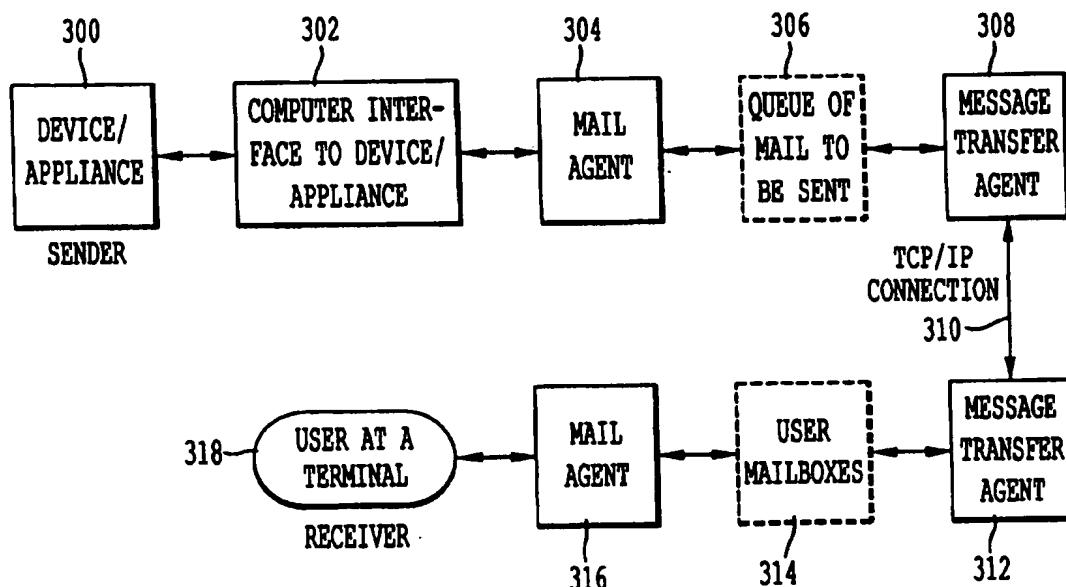


FIG. 5



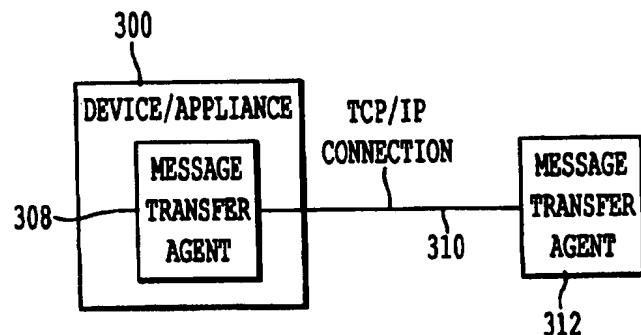


FIG. 6C

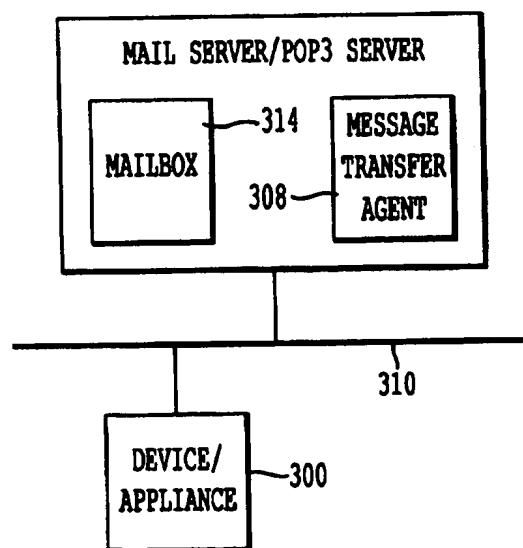


FIG. 6D

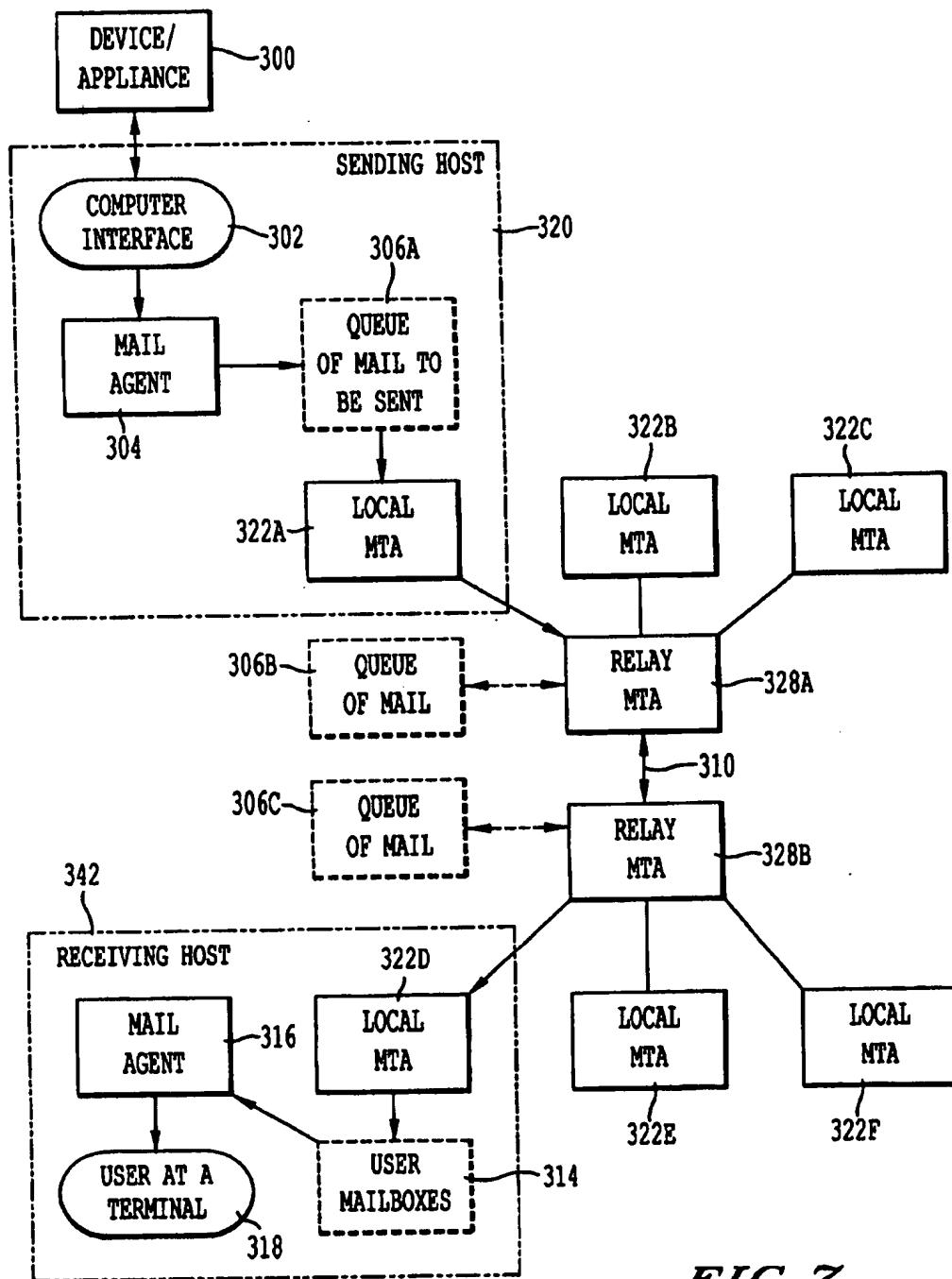


FIG. 7

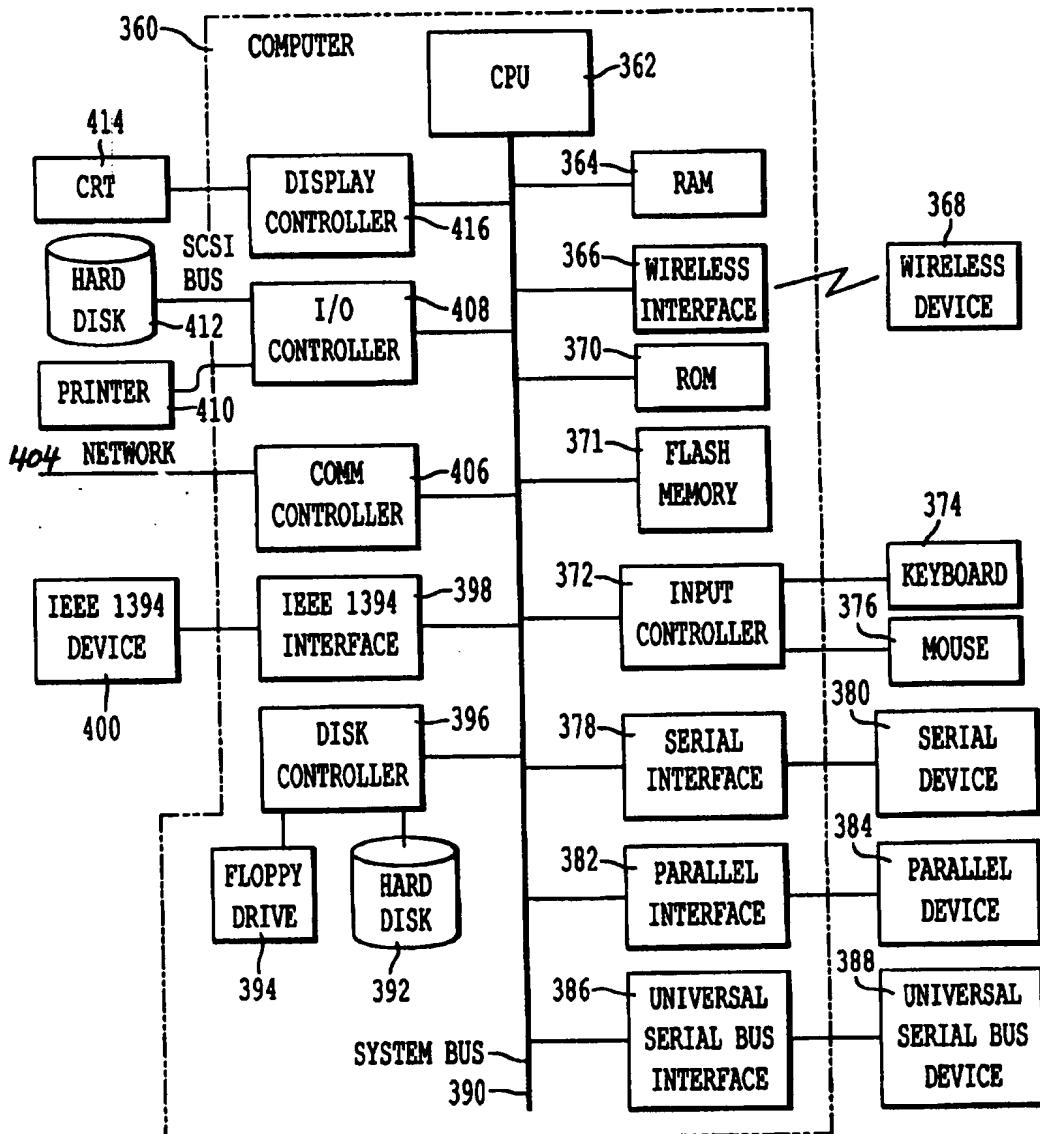


FIG. 8

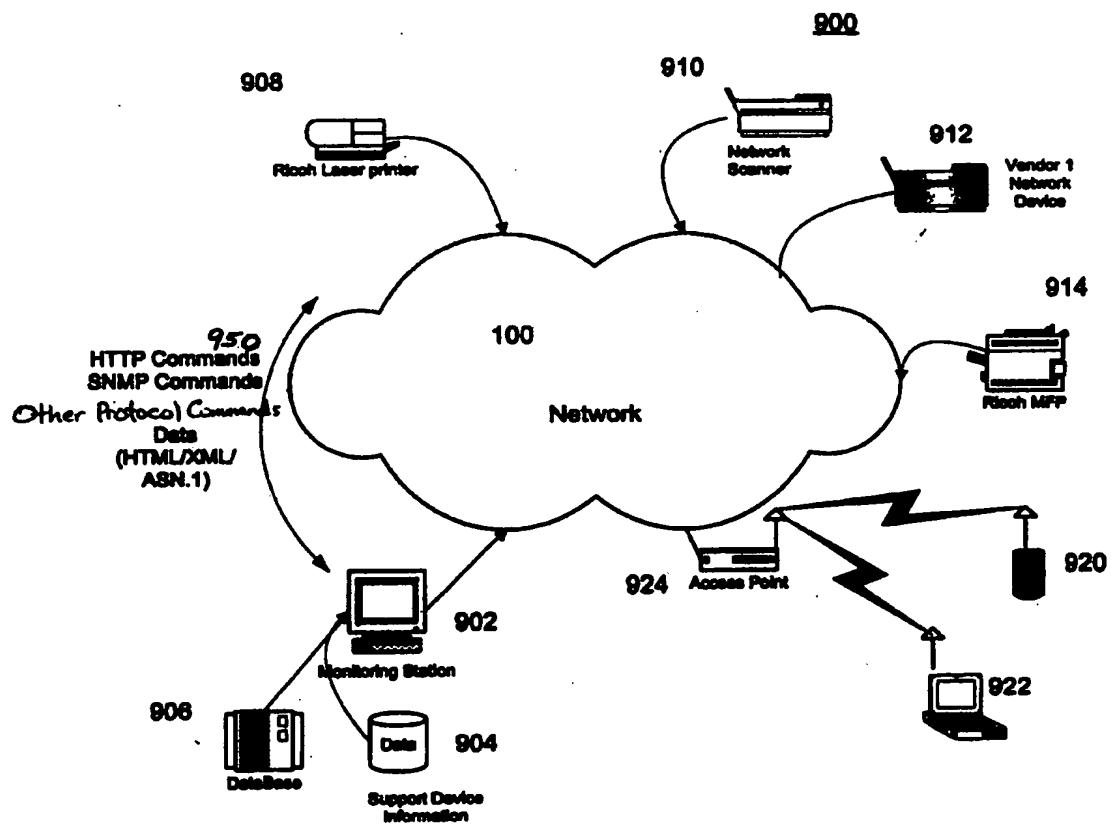


Figure 9

1000

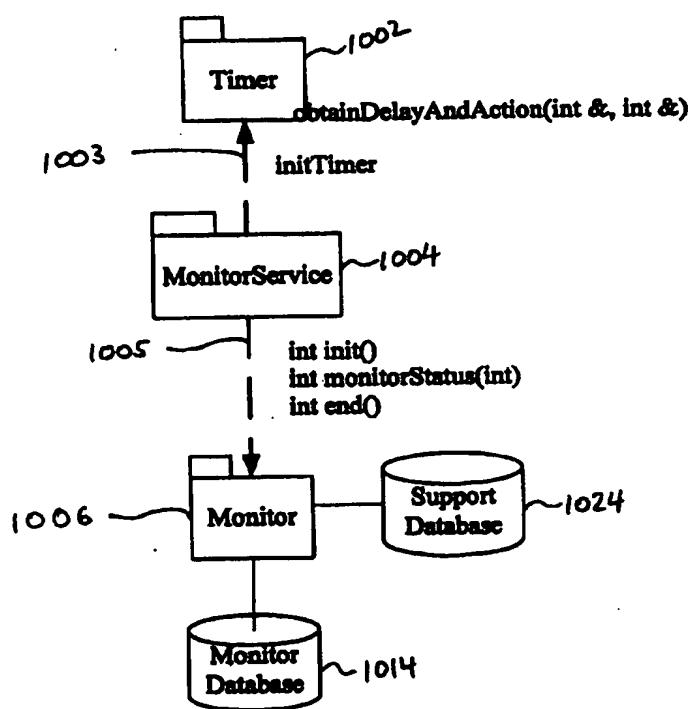


FIG. 10

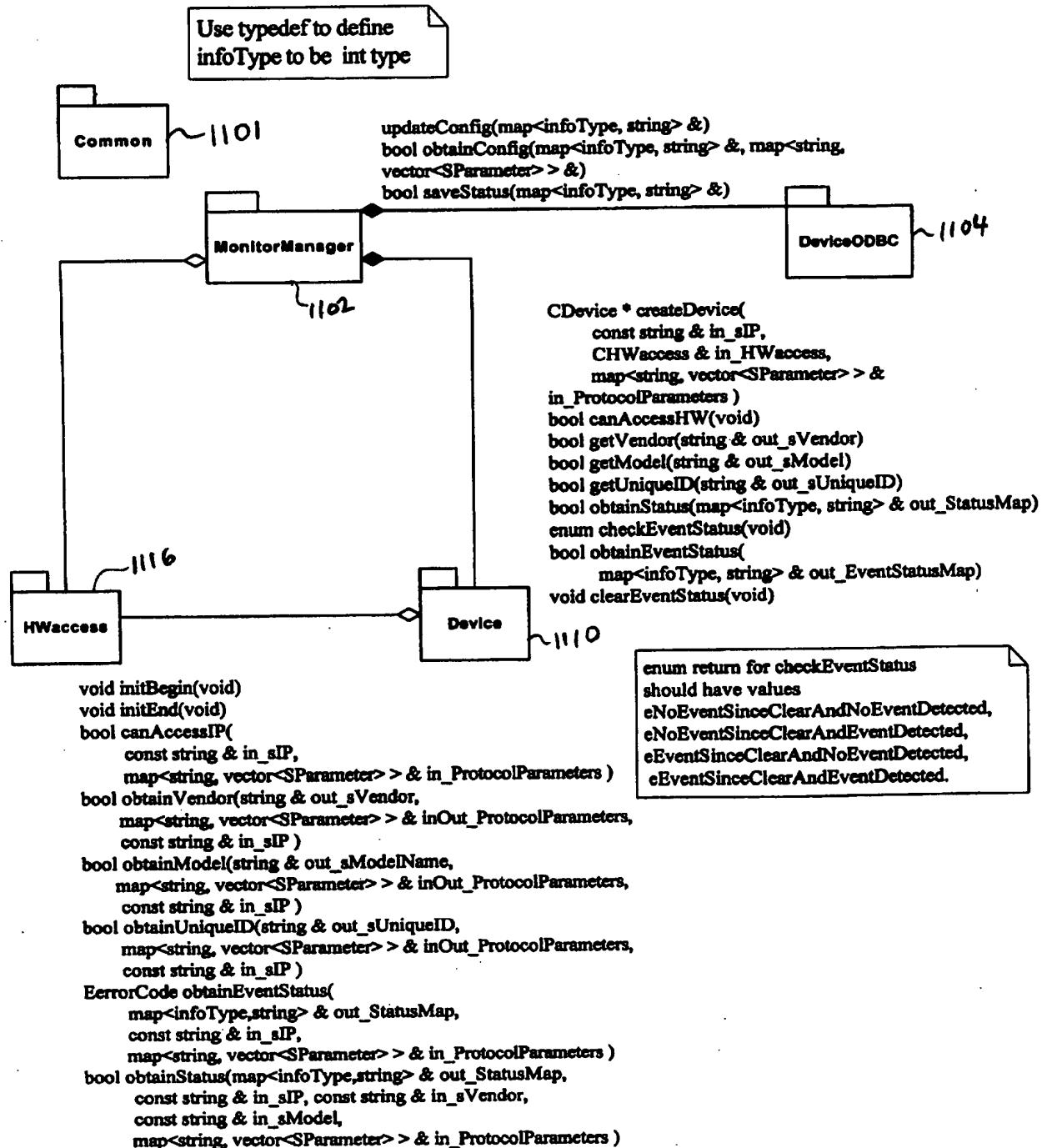


FIG. 11

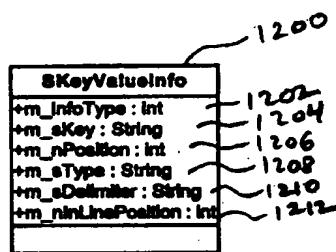


FIG. 12

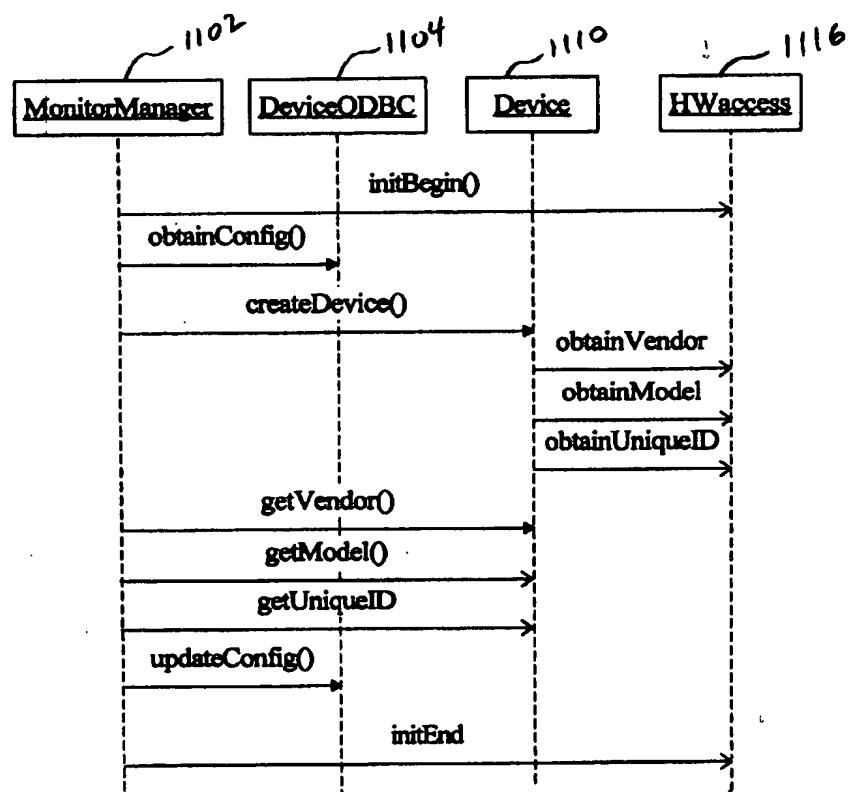


FIG. 13

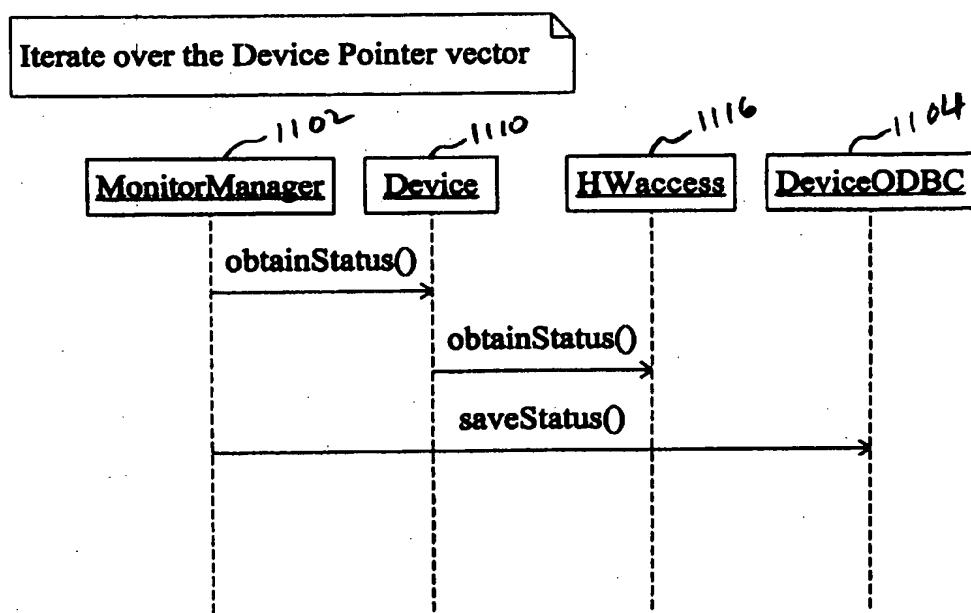
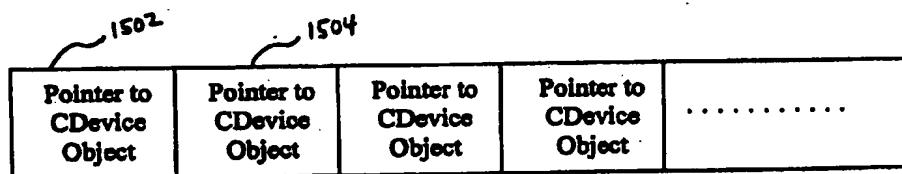


FIG. 14

1500



`std::vector <pointer of CDevice >`

FIG. 15

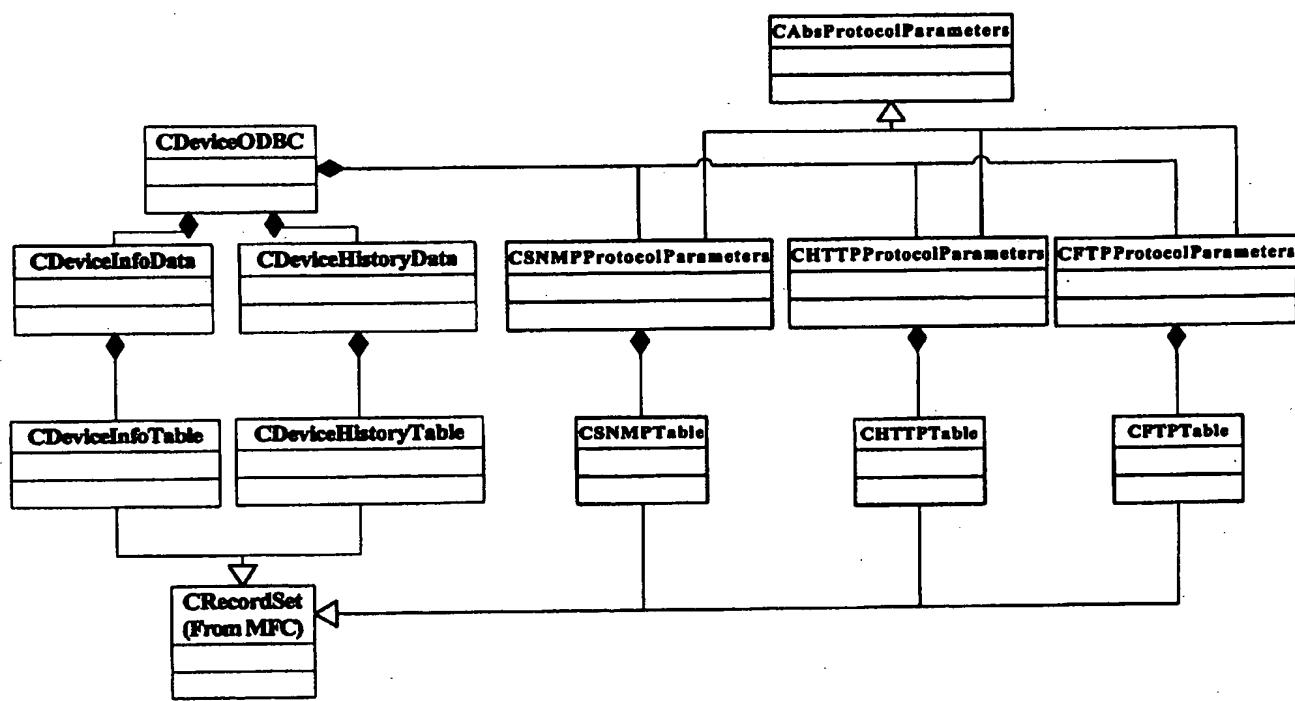


FIG. 16

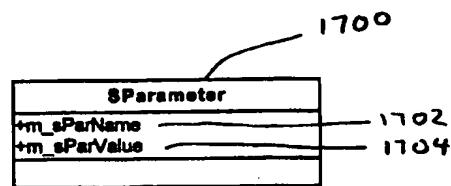


FIG. 17

A table with two columns. The left column is labeled "Protocol (Key)" and the right column is labeled "Vector of SParameter (Value)". There are three rows. The first row contains "SNMP" in the left column and is associated with the label "1802" on its left and "1808" on its right. The second row contains "HTTP" in the left column and is associated with the label "1804" on its left and "1810" on its right. The third row contains "FTP" in the left column and is associated with the label "1806" on its left and "1812" on its right.

Protocol (Key)	Vector of SParameter (Value)
"SNMP"	1808
"HTTP"	1810
"FTP"	1812

FIG. 18

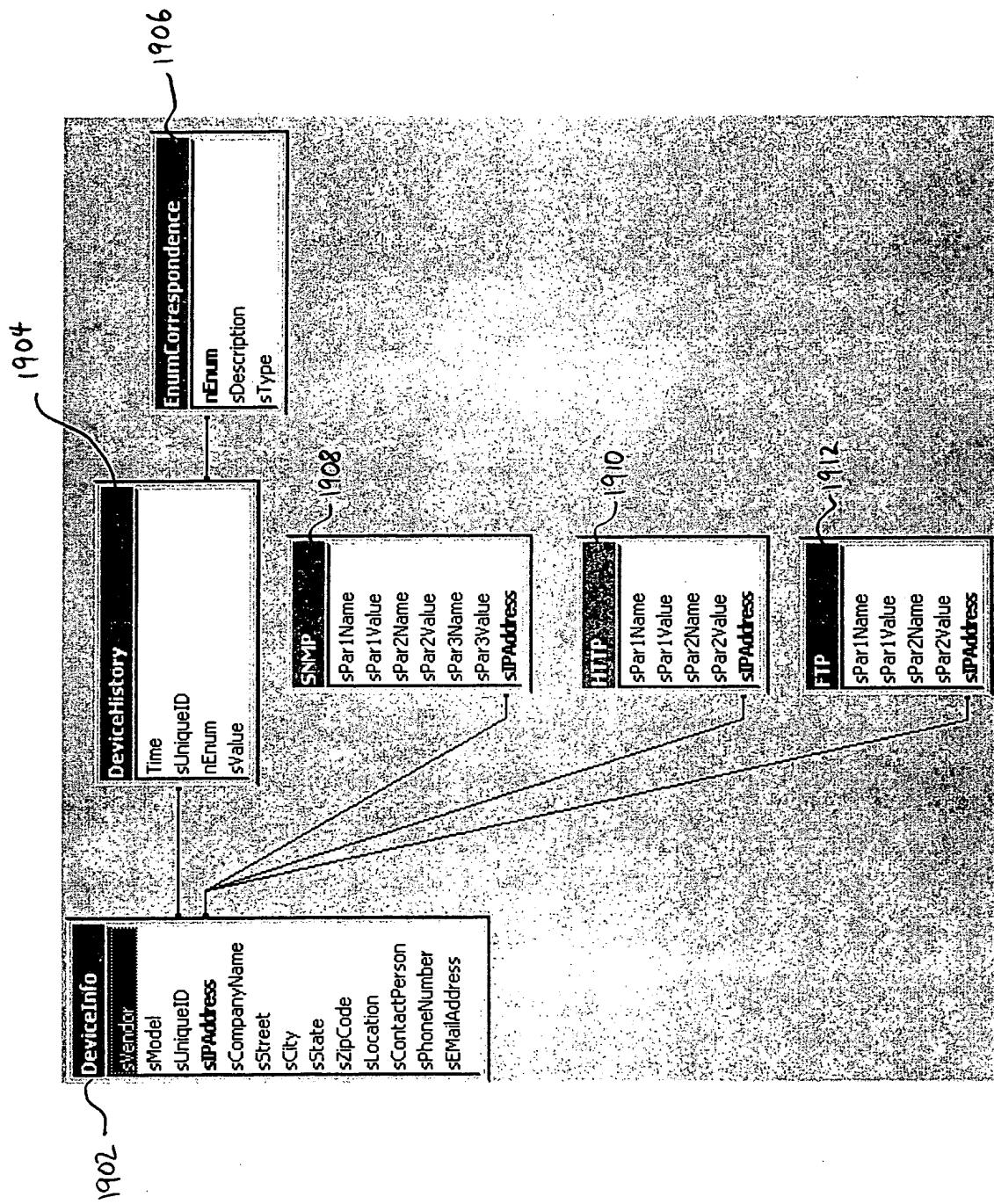


FIG. 19

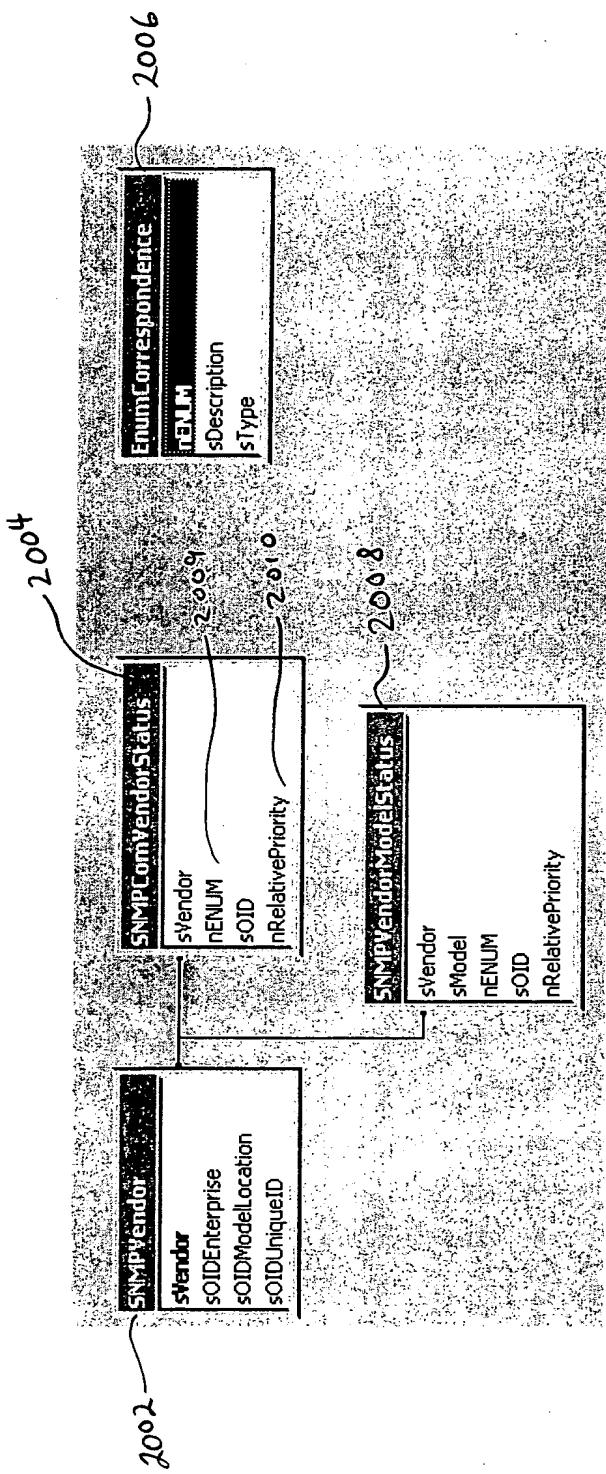


FIG. 20

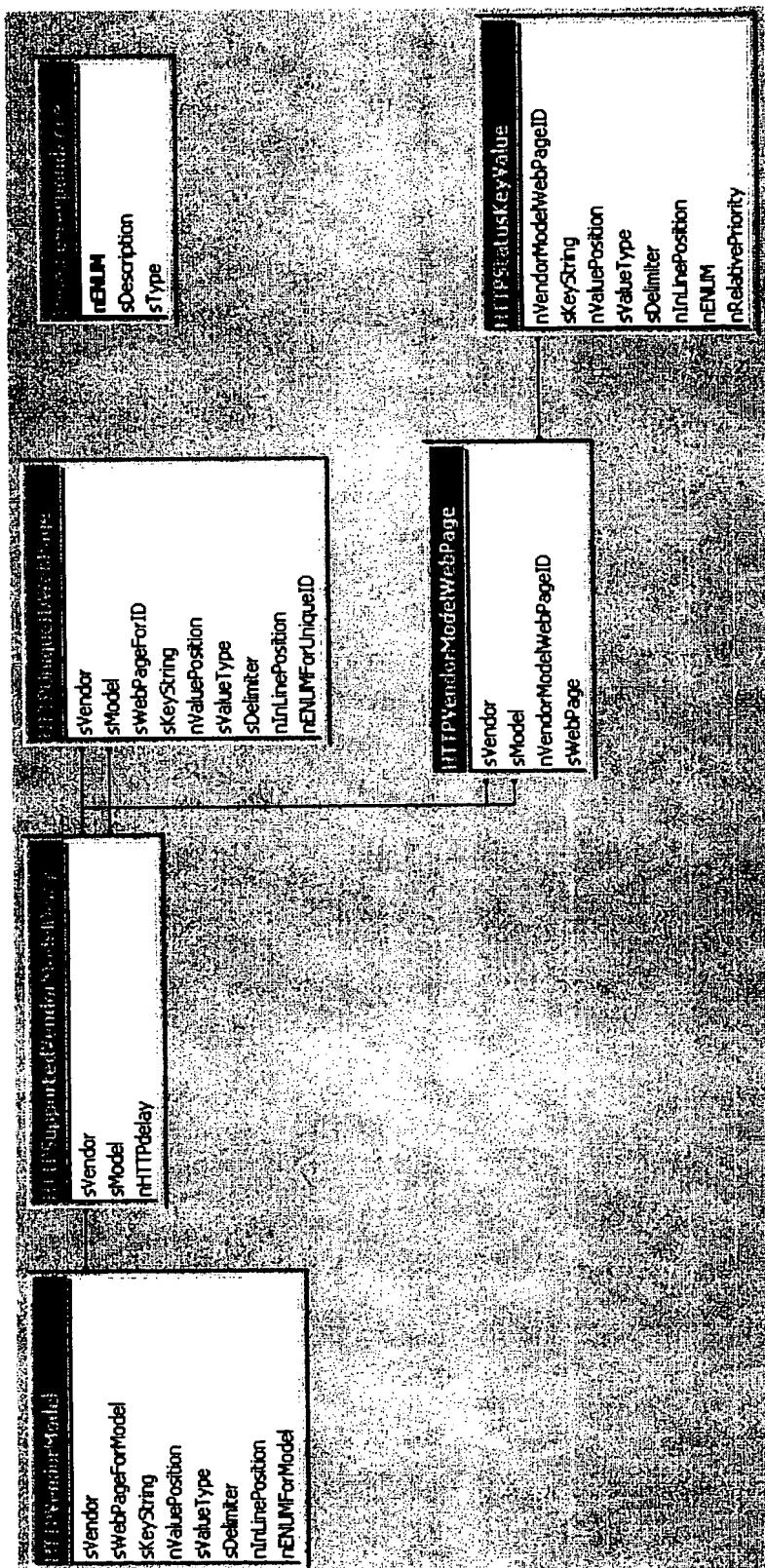


FIG. 21

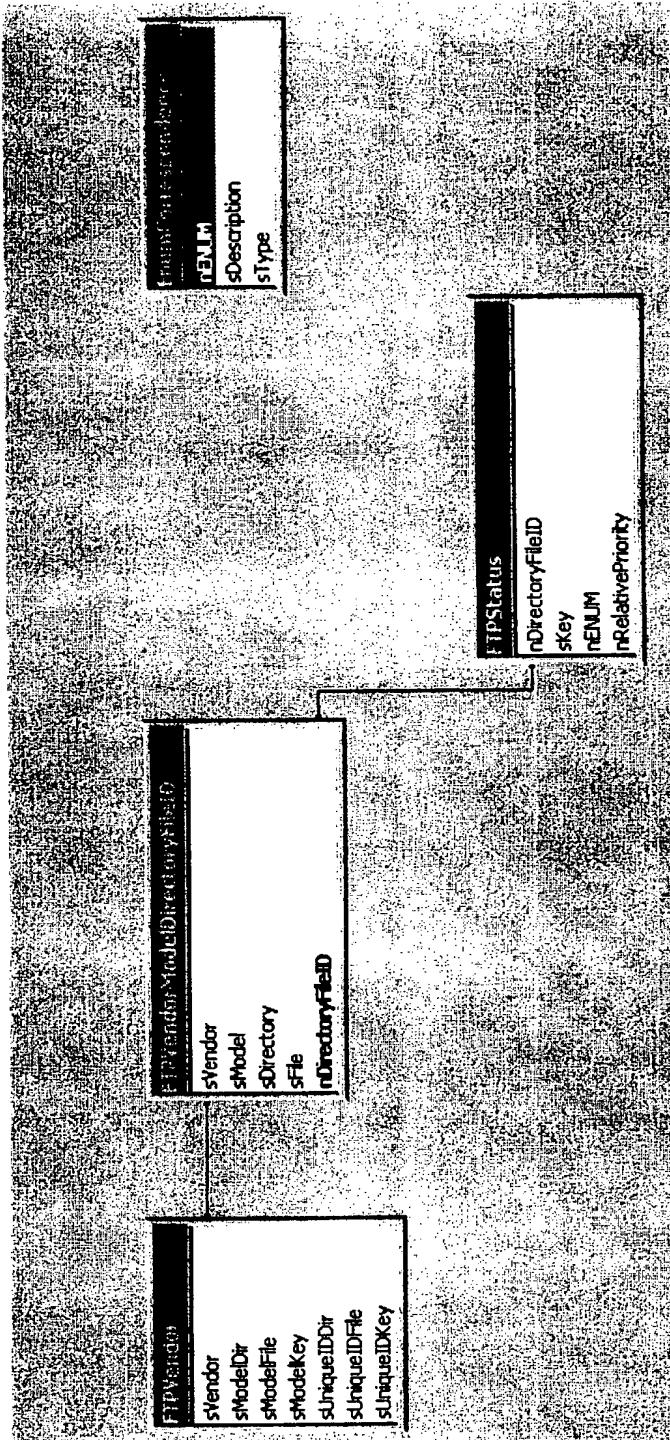


FIG. 22

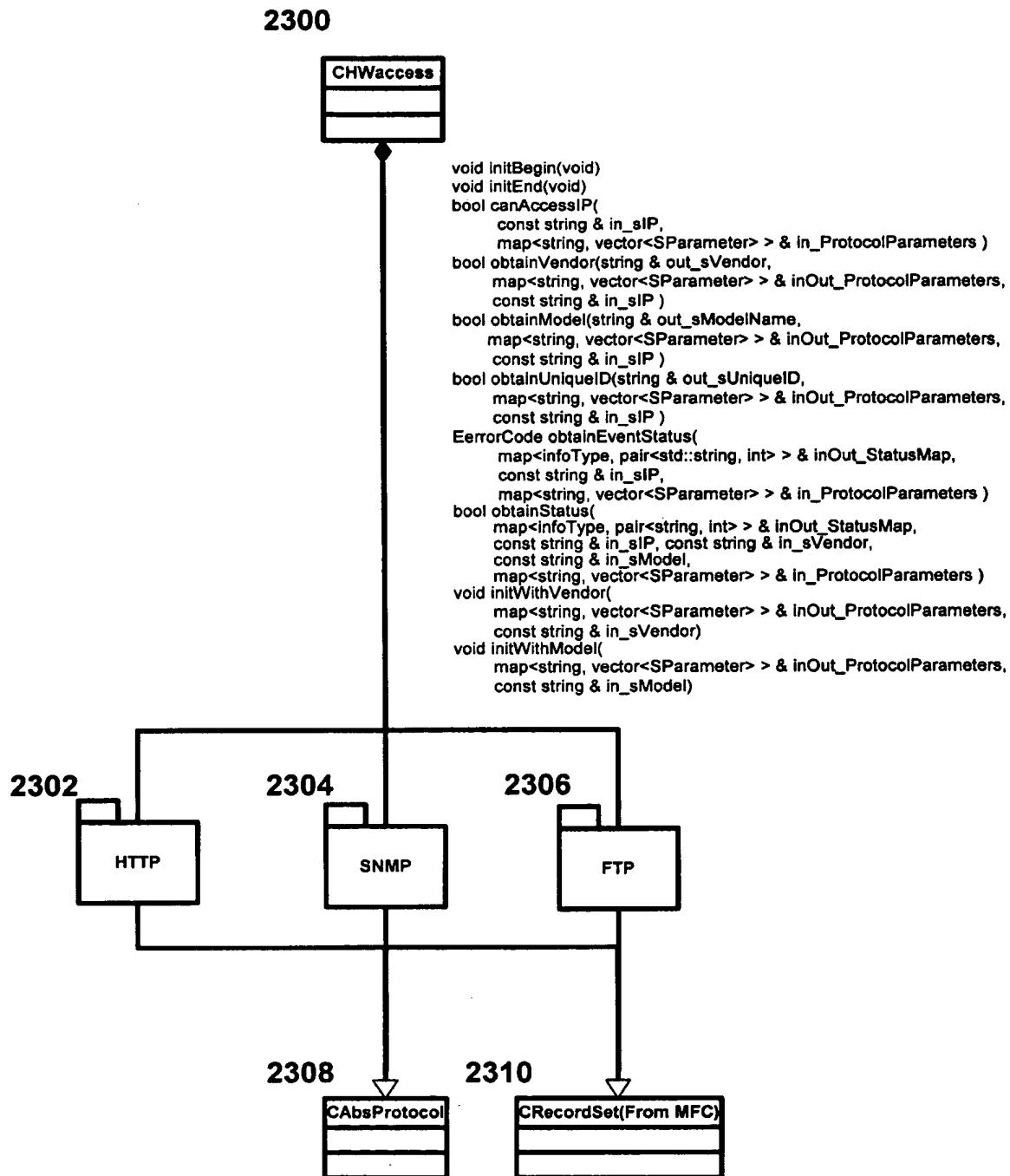


FIG. 23

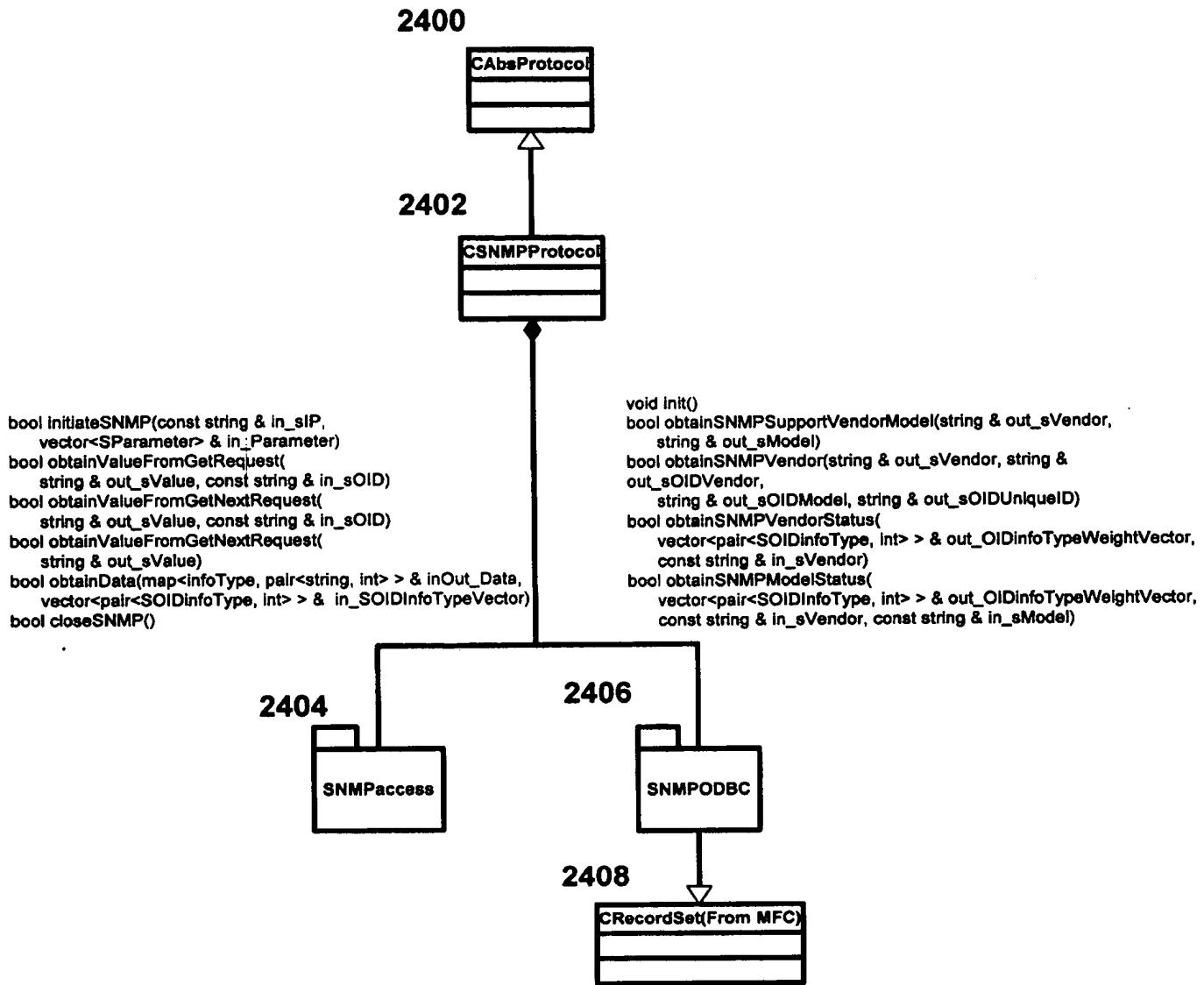


FIG. 24

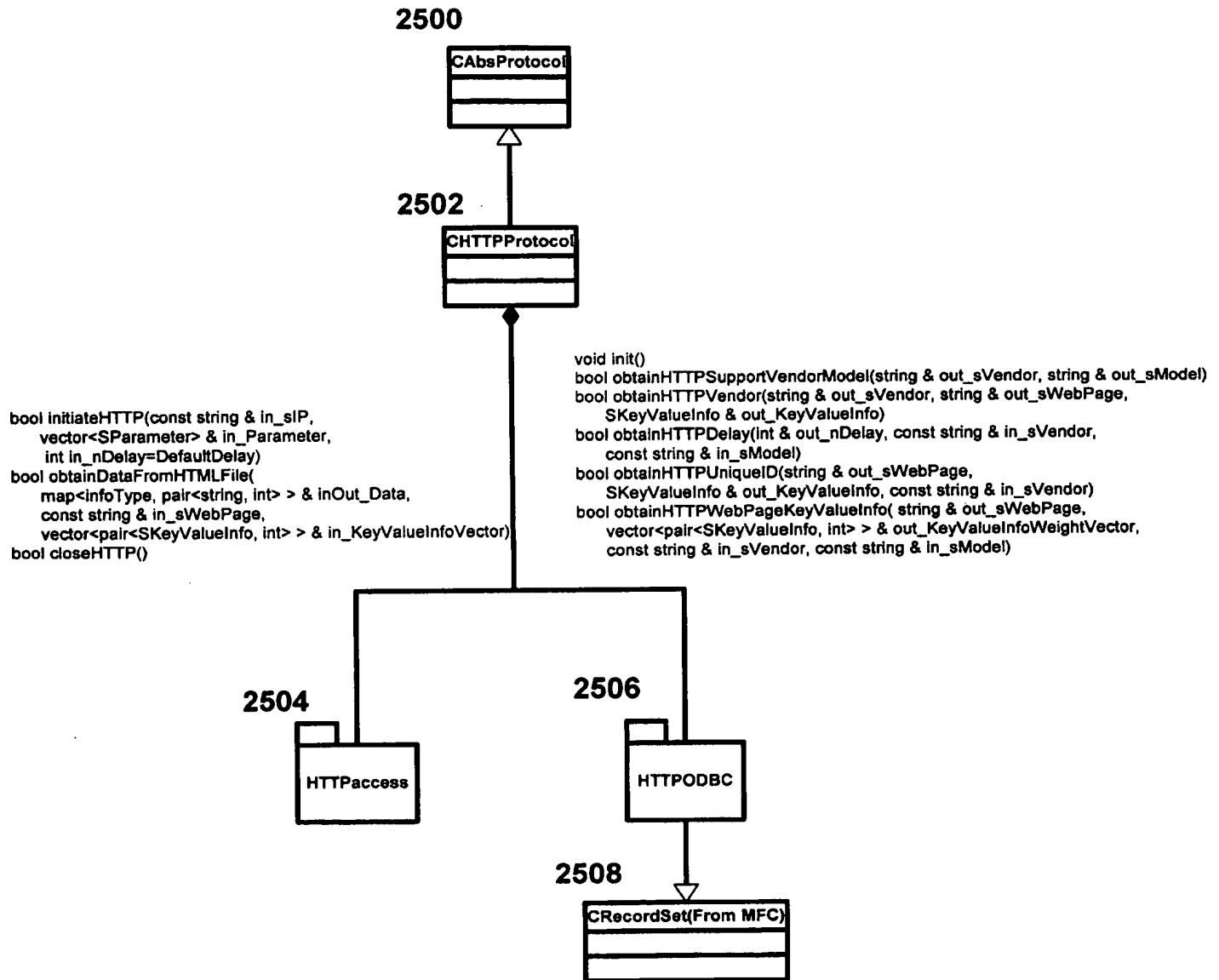


FIG. 25

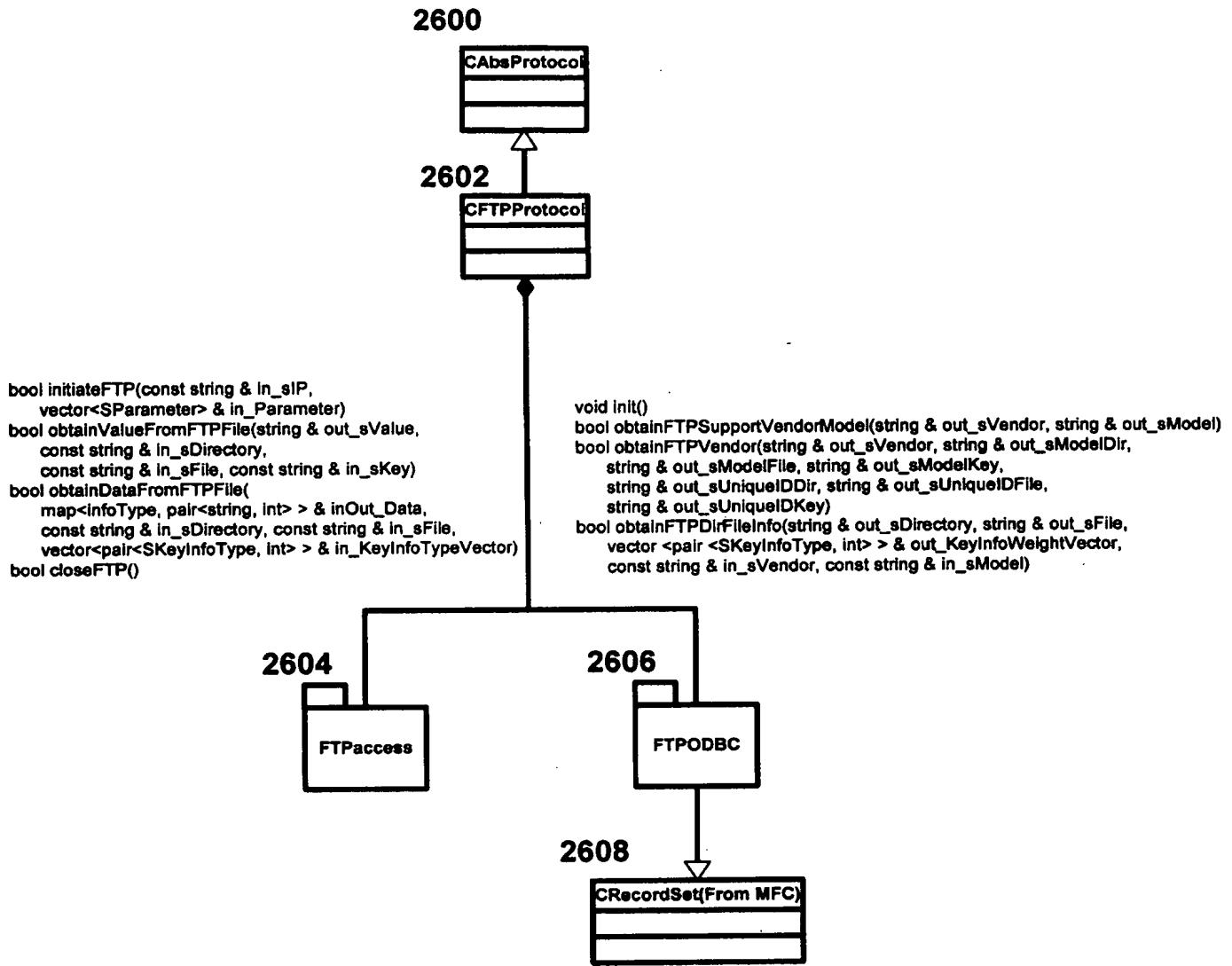


FIG. 26

Vector of CAbsProtocol*

500

CAbsProtocol* 502	CAbsProtocol* 504	CAbsProtocol* 506	...
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FIG. 27A

std::map<std::string, std::map<std::string, std::vector<std::pair<SOIDinfoType, int> > >
510

string 512	map 514	
	string 516	vector 518
Ricoh	GENERIC	<(SOIDinfoType1, int1), (SOIDinfoType2, int2)>
	Aficio 1224C	<(SOIDinfoType3, int3)>
Xerox	GENERIC	<(SOIDinfoType4, int4), (SOIDinfoType5, int5)>
	DocuPrint NC60	<(SOIDinfoType5, int5)>

FIG. 27B

std::map<std::string, std::map<std::string, std::vector<SWebPageInfo> > >
520

string 522	map 524	
	string 526	vector 528
Ricoh	Aficio X	Vector of <pre>struct SWebPageInfo { std::string m_sWebPage; std::vector<std::pair<SKeyValueInfo, int> > m_KeyValueInfoVector; };</pre>
Xerox	N4025	

FIG. 27C

std::map<std::string, std::map<std::string, std::vector<SDirFileInfo> > >
530

string 532	map 534	
	string 536	vector 538
Ricoh	Aficio	vector of <pre>struct SDirFileInfo { std::string m_sDirectory; std::string m_sFile; std::vector<std::pair<SKeyInfoType, int> > m_KeyInfoTypeVector; };</pre>
Xerox	N4025	

FIG. 27D

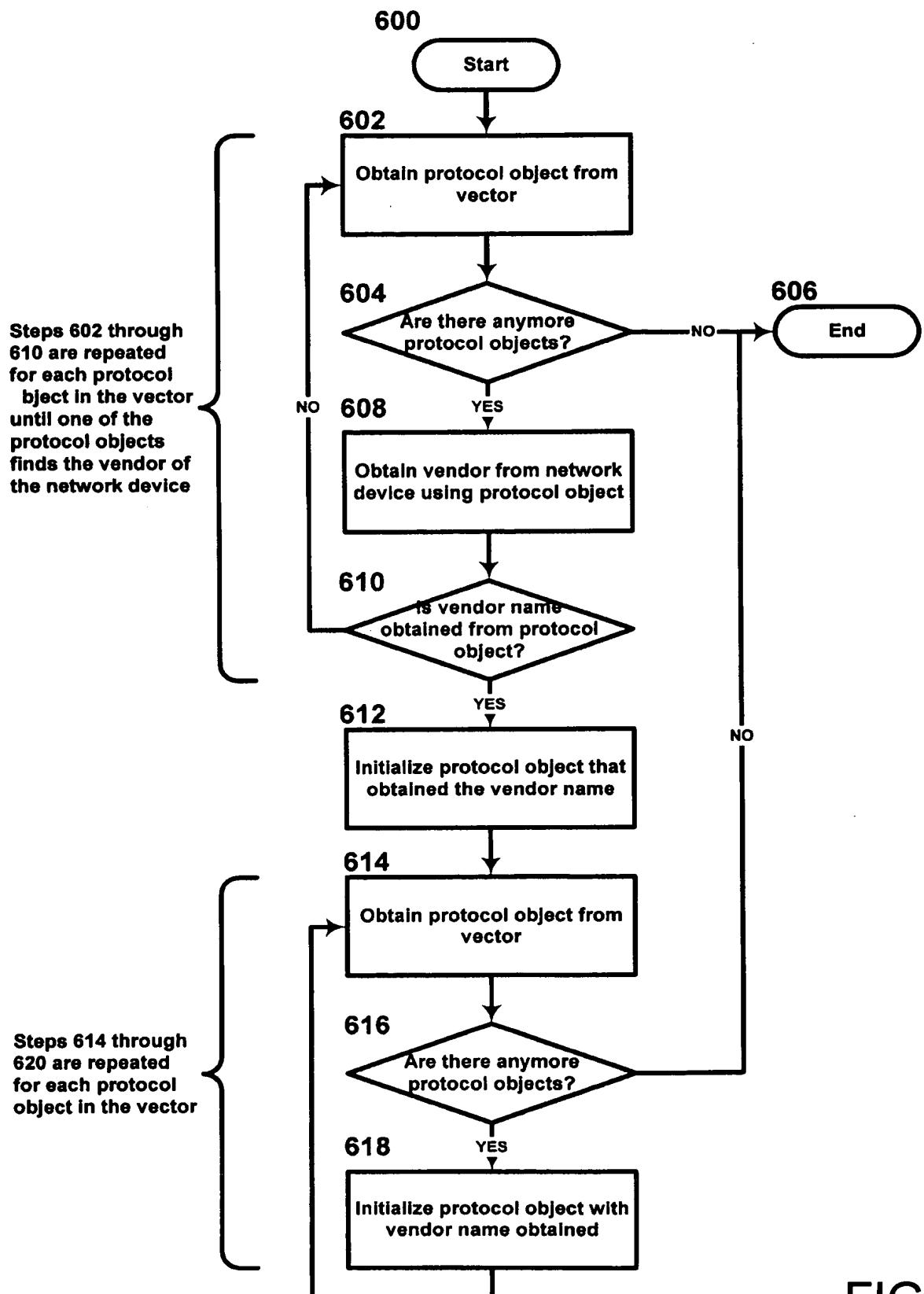


FIG. 28

SNMP Protocol
700

pair<SOIDInfoType, int> 702	pair<SOIDInfoType, int> 704	...
--	--	-----

FIG. 29A

706

```
struct SOIDInfoType {
    InfoType m_InfoType;
    std::string m_sOID;
    SOIDInfoType();
    ~SOLIDInfoType();
    void clear();
};
```

HTTP Protocol
708

pair<SKeyValueInfo, int> 710	pair<SKeyValueInfo, int> 712	...
---	---	-----

FIG. 29B

714

```
struct SKeyValueInfo {
    InfoType m_InfoType;
    std::string m_sKey;
    int m_nPosition;
    std::string m_sType;
    std::string m_sDelimiter;
    int m_nInLinePosition;
    SKeyValueInfo();
    ~SKeyValueInfo();
    void clear();
};
```

FTP Protocol
716

pair<SKeyInfoType, int> 718	pair<SKeyInfoType, int> 720	...
--	--	-----

722

```
struct SKeyInfoType {
    InfoType m_InfoType;
    std::string m_sKey;
    SKeyInfoType();
    ~SKeyInfoType();
    void clear();
};
```

FIG. 29C

Status Information Map
724

726

728

InfoType	pair<string, int>
InfoType	pair<string, int>
InfoType	pair<string, int>
...	...

FIG. 29D

std::map<std::string, std::map<std::string, std::vector<SDirFileInfo> > >
800

Ricoh	Aficio 120	<SDirFileInfo1, SDirFileInfo2, SDirFileInfo3>

802

/pub
status.txt
<(SKeyInfoType1, 1000), (SKeyInfoType2, 5000), (SKeyInfoType3, 10000), (SKeyInfoType4, 7500), (SKeyInfoType5, 625)>

SKeyInfoType1 corresponds to the InfoType 600, SKeyInfoType2 corresponds to the InfoType 610, SKeyInfoType3 corresponds to the InfoType 620, SKeyInfoType4 corresponds to the InfoType 700, and SKeyInfoType5 corresponds to the InfoType 710

Status Information Map

804

600	("Low Paper", 500)
610	("24321", 10000)
700	("OK", 2500)

FTP Protocol

806

(SKeyInfoType1, 1000)	(SKeyInfoType3, 10000)	(SKeyInfoType4, 7500)	(SKeyInfoType5, 625)
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FIG. 30

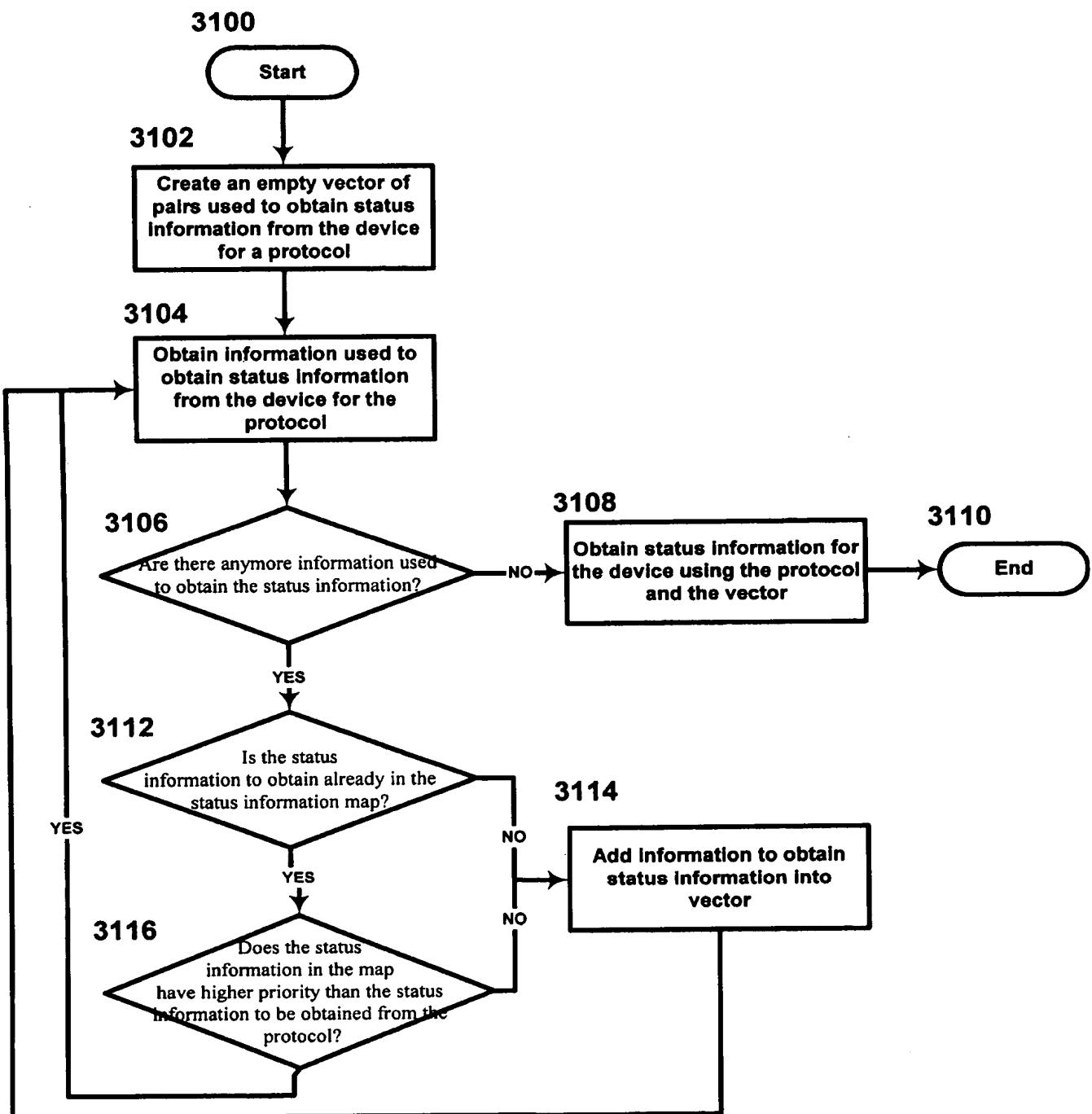


FIG. 31A

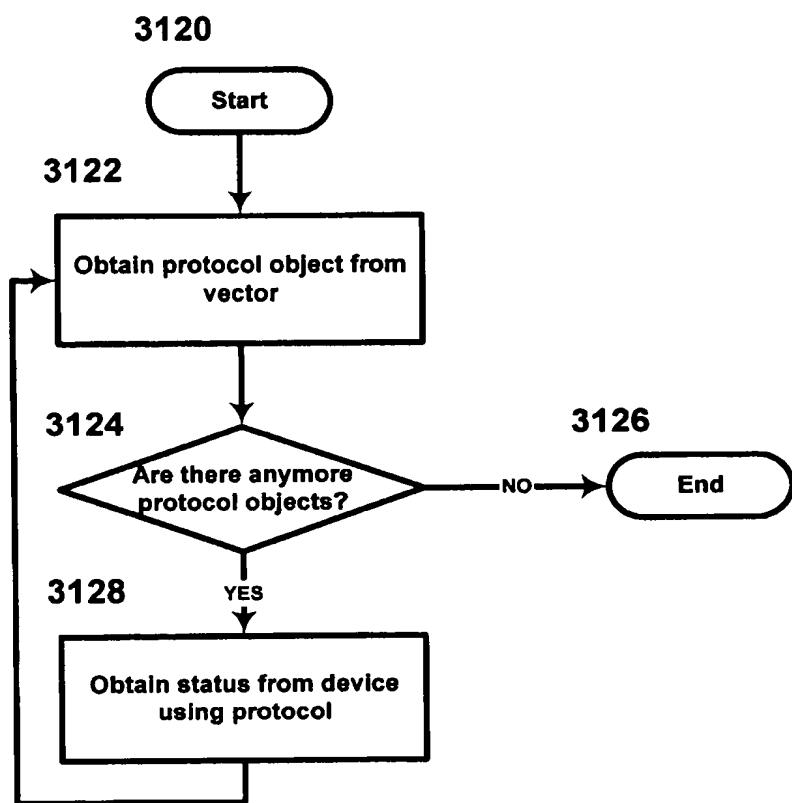


FIG. 31B

Vendor Model Support Map
3200

3202	3204
string	int
...	...

FIG. 32A

Sample Vendor Model Support Map
3206

3208	3210
Xerox%%%%%NC60	1
Xerox%%%%%N4025	1
HP%%%%%LaserJet 9000	1
HP%%%%%LaserJet 4550	1
...	...

FIG. 32B

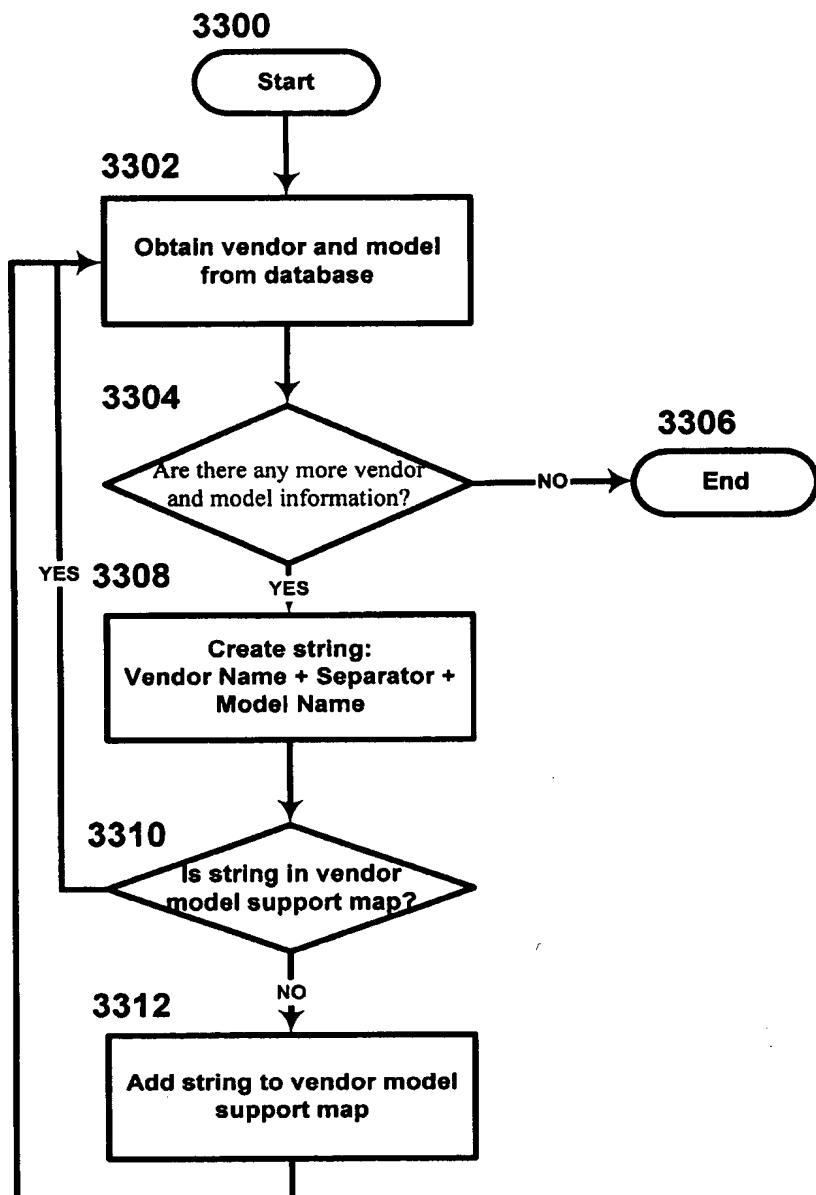


FIG. 33

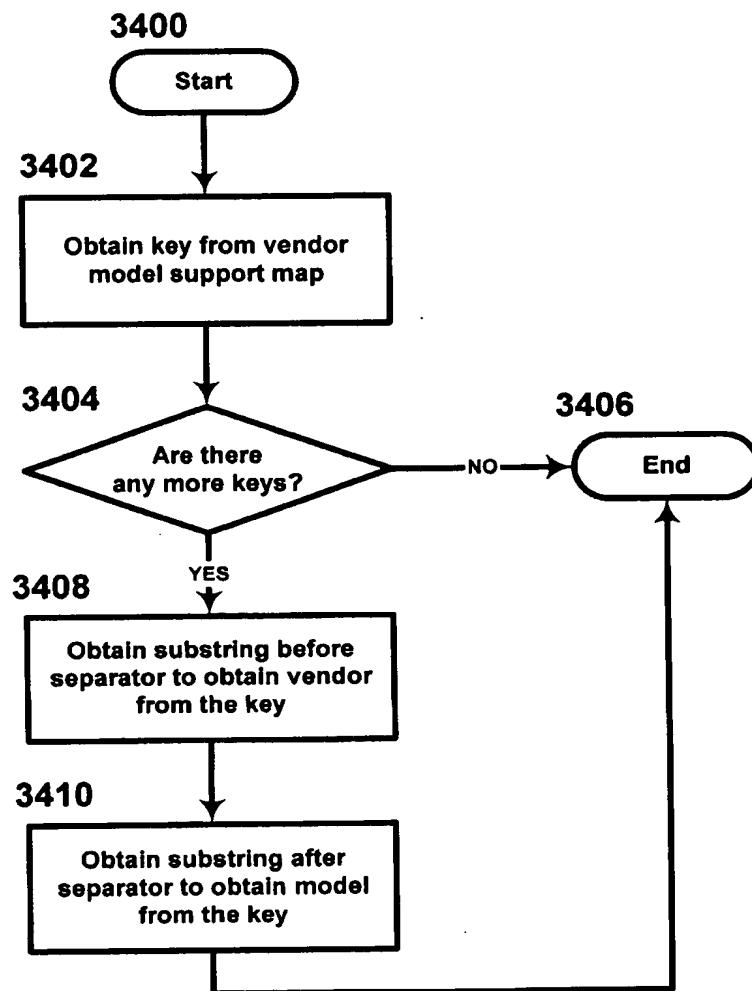


FIG. 34

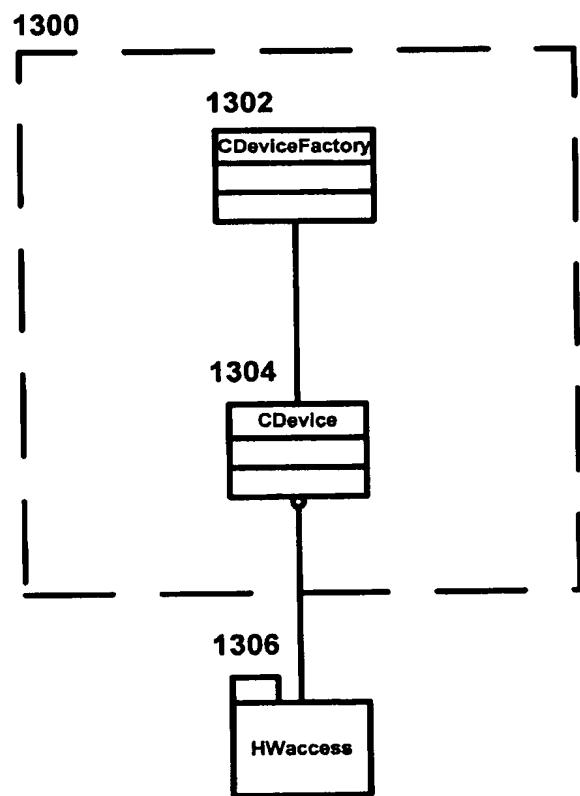


FIG. 35

Protocol Parameter Map
1400

1402

1404

1406

string	vector<SParameter>
...	...

```
struct SParameter {
    std::string m_sParName;
    std::string m_sParValue;
    SParameter ();
    ~SParameter ();
    void clear();
};
```

FIG. 36A

1410

SNMP	<(COMMUNITY, private)>
FTP	<(USERNAME, abc), (PASSWORD, xyz)>

FIG. 36B

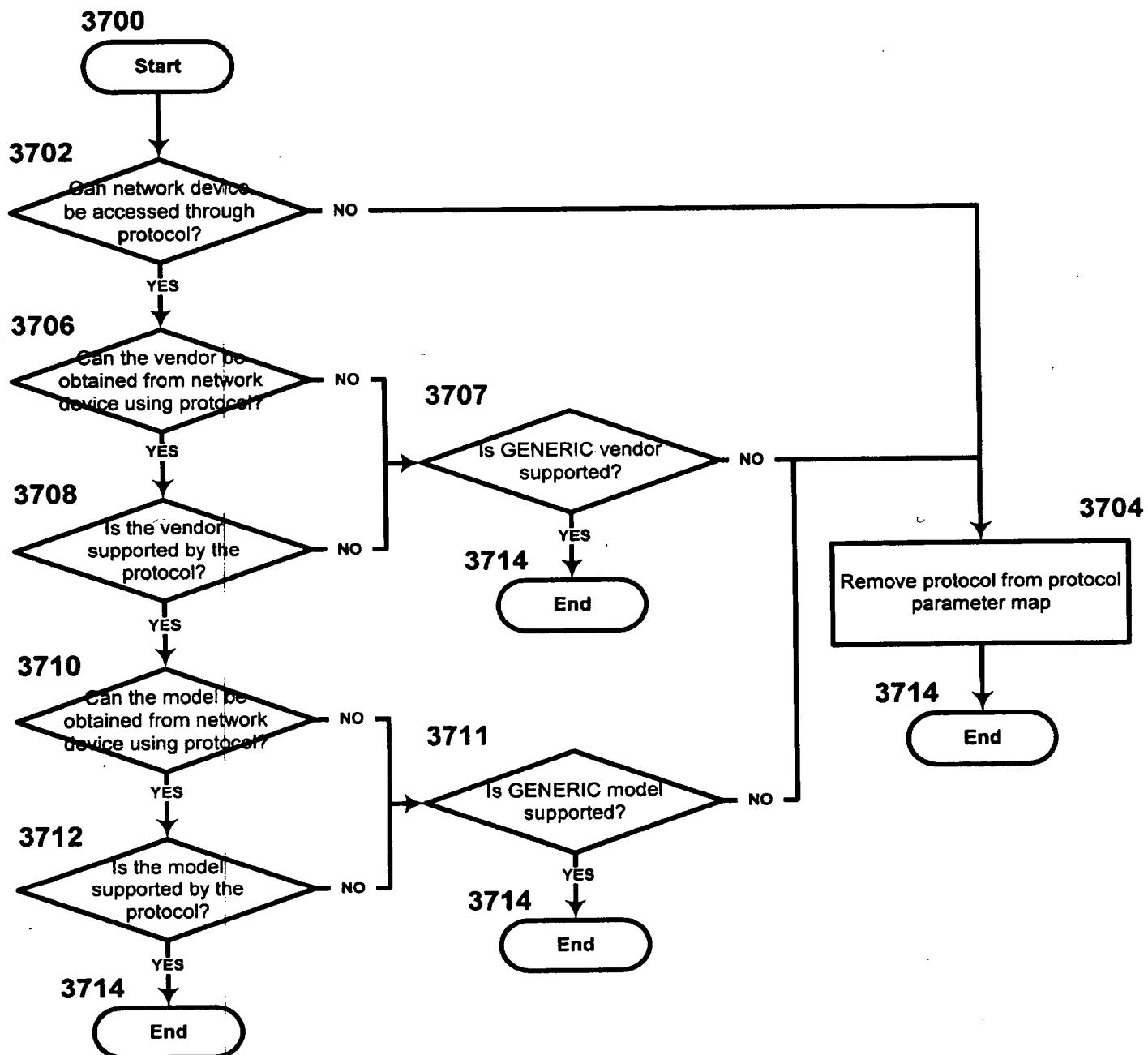


FIG. 37